APPLIED LOGIC CORPORATION

presents

Model No. AL-1

THE TIME / MONITOR

for Computers

O Supervises "open shop" computer operation on a 24-hour basis. O Denies access to unauthorized persons. O Provides accurate, permanent records of computer utilization on paper tape for direct computer input. O The Time Monitor has its own internal tape "memory" which makes day to day use of a computer memory unnecessary.

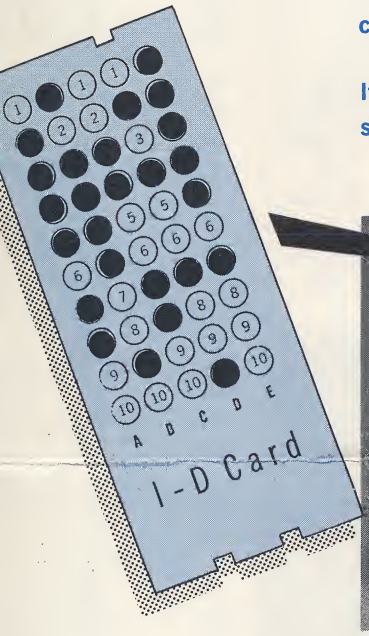
APPLIED LOGIC CORP.
ONE PALMER SQUARE
PRINCETON, N. J.
609 921-2440

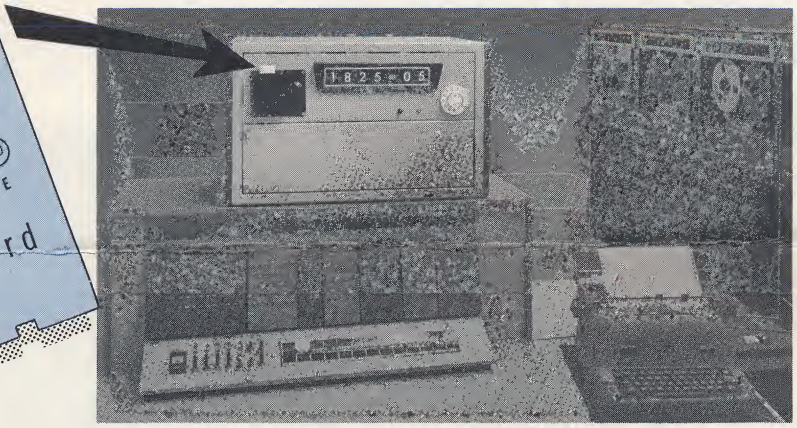
APPLIED LOGIC CORPORATION, 20 Nassau Street, Princeton, New Jersey

THE TIME / MONITOR

Designed and built to provide continuous supervision of computer operation and complete permanent records for cost accounting, timekeeping and billing, here is Applied Logic's TIME MONITOR for computers.

It monitors "open shop" operation with accuracy and requires no supervisory personnel. "Closed shop" records for precise cost accounting are produced with minimum operator effort.

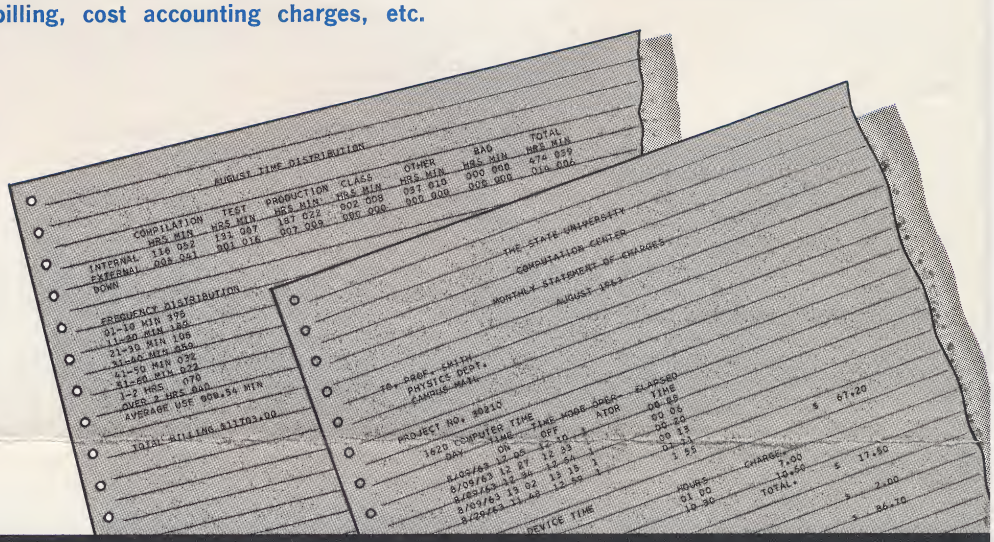




- Insertion of Monitor I.D. card in the reading slot automatically turns on the computer.
- Dialing one number jointly enables the computer and introduces an additional digit of information at time of operation: operator identification, mode of operation, etc.
- The user simply removes his Monitor I.D. card to record time out.

Periodically, or whenever desired, the punched tape is fed to the computer for production of usage summaries, customer billing, cost accounting charges, etc.

The TIME MONITOR quickly provides an accurate summary of the month's operation: departmental usage, length of usage, etc.



Copyright, 1963 by APPLIED LOGIC CORP.

Applied Logic Corporation offers programming to meet the billing or accounting requirements of your computation center, periodic tape to card conversation, service and maintenance on an annual basis or, as needed. The Computer Time Monitor can be provided with optional units for monitoring up to ten additional pieces of equipment. In such operations all data is recorded within the master Monitor. Design and components of the monitor are selected to insure maximum reliability.

SPECIFICATIONS

The Monitor — 17" x 19" x 28"

24-hour clock reads in hours and minutes; months and days.

Power supply: 110-120 volts A.C.

A cable provides interlock with the computer.

The I.D. card provides ample identification scope through five numeric or alphanumeric characters.

The Monitor uses standard 1" paper tape. Provision for manually punching paper tape are included.

Available by purchase, lease, or lease-purchase. Inquiries receive immediate attention.

Write: APPLIED LOGIC CORPORATION, 20 Nassau Street, Princeton, New Jersey
(609) 921-8667

APPLIED LOGIC CORPORATION

ONE PALMER SQUARE
PRINCETON, N.J. 08540
TEL. 609 • 921-2440

December 6, 1965

Mr. T. H. Nelson
Systems Consultant
Box 1546
Poughkeepsie, New York 12603

Dear Sir:

Thank you for your inquiry. We market two distinct Monitor systems, the AL-3 and the AL-4. The AL-3 Monitor, as described in the enclosed literature, reads a small Monitor ID card to identify computer user. This system collects total elapsed time of job. The AL-4 Monitors read an IBM card punched for a job number, and records actual computer running time, total elapsed time, and operator's identity.

In using either system, the need for pencil logs or other manual time sheets is obviated, because all transactions are recorded on punched paper tape or punched cards, which are converted daily, weekly, or at any other suitable interval to computer print-out similar to the enclosed.

These monitors facilitate the preparation of daily summaries and other management information, as well as monthly billings. Substantial cost savings are achieved.

If you request further information, please enclose a copy of the computer log form now in use; preferably one that has a variety of entries.

Very sincerely yours,

APPLIED LOGIC CORPORATION

William D. Nelson

William D. Nelson
Vice President

Enclosures

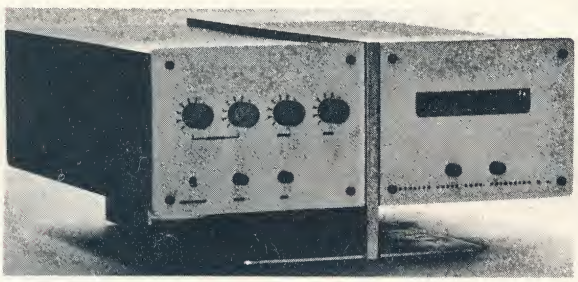
LOMA EQUIPMENT REVIEW

No. 271

Summer 1965

Computer Usage Monitor

A timekeeping device that maintains a continuous log of computer operations is being marketed by the Applied Logic Corp., 1 Palmer Square, Princeton, N.J. 08540. The Time Monitor maintains a permanent running record on magnetic tape, punched paper tape or punched cards of projects for which a computer is used. It also serves as a "watchman," limiting the use of unsupervised computers to authorized personnel, permitting 24-hour operation. In each project, the Time Monitor records the overall time required to prepare, utilize and unload a computer, the actual running time, the actual time for preparation and unloading, those periods during an operation when the computer is inactive, and reasons for the stoppage. It can identify operators, programs and programmers. Two models are available: AL-4 provides a complete picture of computer usage, while AL-3 records the overall time the computer is in operation for each project.



The AL-4 consists of an input unit, a master unit and an output device such as a keypunch, a tape punch or a magnetic tape drive. Before an operator loads a computer, he records his identification number and the mode of operation on dials on the face of the input unit and inserts a coded job card. The card identifies the project and may also provide other information. It is read by a photoelectric reader capable of identifying up to 70 alphanumeric characters. If the code is acceptable, the time is recorded and the computer is freed for use. The job card remains in the input unit until the run is completed and the computer has been emptied. When the job card is removed the time is again recorded. To measure actual running time, the AL-4 monitors the computer's central processing unit. Should the computer's operation be disrupted, the operator dials a code number representing the reason. The AL-4 keeps its records on paper or magnetic tape or on punched cards. The input unit measures 6 by 14 1/2 by 14 inches. The master unit is 30 by 24 by 24 inches.

The AL-3 houses input and recording equipment in one unit. To use a computer supervised by this model, the operator inserts a precoded plastic identification card, which is inspected by a mechanical card reader that unlocks the computer when the code is acceptable. In the process, the AL-3 records the operator's identification number or the project number and the starting time. When the computer has completed its run, the operator pushes a stop button on the monitor, the card is released and the stopping time is recorded. Records are kept on standard paper tape. The AL-3 measures 17 by 19 by 28 inches. Through the installation of supplementary slave units, each model can monitor and supervise as many as 10 computers. The AL-3 and the AL-4 may be purchased, leased or installed on a lease-purchase arrangement. Prices start at $4,800 plus freight for the AL-3. Each supplementary AL-3 unit is $950.

APPLIED LOGIC CORP.
ONE PALMER SQUARE
PRINCETON, N. J.
609 921-2440

STEVENS INSTITUTE OF TECHNOLOGY
DIGITAL COMPUTER LABORATORY
1620
GENERAL REPORT
PERIOD FROM SEPTEMBER 1 TO SEPTEMBER 30, 1965

PROB NO.	TITLE OF PROGRAM	PROGRAMMER	TEST TIME	PROD. TIME	TOTAL TIME	
1000	TEST PROBLEMS - FORTRAN, SPS, MACH. LANG.	AR	005 22	001 10	006 32	U
1001	PROGRAM TESTING--FORTRAN	SJL	000 00	000 05	000 05	U
1018	PI ZERO LIFETIME	K+T	000 00	028 56	028 56	U
1046	MONTHLY REPORT	FW	000 40	000 08	000 48	U
1152	UNSTEADY BOUNDAR/ LAYER	CEG	000 26	005 54	006 20	S
1155	OCEANGRAPHIC DATA ANALYSIS	GWZ	000 11	000 00	000 11	S
1256	INDUS. ENG. 275	JMW	006 14	000 00	006 14	E
1265	SENIOR HONORS PROJECTS	ELK	000 27	000 00	000 27	E
1267	HYDRODYNAMICS OF JET COLLISIONS	CEG	000 28	000 00	000 28	S
1298	ANALYSIS OF TAU+ DECAYS	ST	000 00	000 29	000 29	S
1329	MATH 18 PROBLEMS	DKK	000 05	000 00	000 05	E
1354	SUMMER SCIENCE TRAINING PROGRAM	JSH	000 06	000 00	000 06	S
1395	YEARLY REPORT	MS	007 30	001 25	008 55	U
1397	INT. COMBUS. ENGINE ANAL. ME 400	GA	014 00	002 30	016 30	E
1404	ACM COMPUTER USE	AR	001 40	000 00	001 40	E
1417	MAGNETIC COMPRESSION	SC	000 35	001 21	001 56	S
1421	AROMATIC PROTON SPECTRA	JVV	000 44	000 32	001 16	U
1472	CE 53 CLASS PROBLEM	JG	000 41	000 00	000 41	E
1473	CE 51 / CE 213 AND 214 CLASS PROBS.	JG	000 37	000 00	000 37	E
1476	RANDOM NUMBER GENERATOR	AR	002 01	000 00	002 01	E
1481	COMPUTER PROGRAMMING TECHNIQUES	AR	000 08	000 00	000 08	E
1487	ADAPTIVE CONTROL INVESTIGATION	RJ	005 51	002 33	008 24	S
1488	MAXIMUM POINT OF X-RAY LINE	FW	001 52	004 02	005 54	U
1499	EFFECT OF VISCOSITY IN WAVE RESISTANCE	KE	000 07	001 02	001 09	S
1503	ANALYSIS OF SPECTRA	PW	003 39	000 28	004 07	U
1520	MS 21 COURSE WORK	KH	000 10	000 15	000 25	E
1524	GAMES	ND	000 50	000 00	000 50	E
1529	CALC. OF BOUNDARY LAYER PARAMETERS	RSG	000 45	001 15	002 00	U
1530	AMMONIA ENGINE	SJL	003 44	000 20	004 04	S
1537	OPTIMIZING ETHYL ACETATE YIELDS	HKS	004 39	025 41	030 20	U
1538	MOLECULAR FORMULA PROGRAM	JMV	000 28	000 54	001 22	U
1539	MATH 158	AR	000 25	000 00	000 25	E
1543	HYDROFOIL FLUTTER ANALYSIS	CJH	000 37	005 26	006 03	S
1546	LSF FOR CLAMPING PLATE DATA	CJH	000 09	002 45	002 54	S
1547	MS 21, 101, 227/TM. STRC./INT. RTS./VEL. MY	PSK	001 27	000 00	001 27	E
1550	COMPUTER PROGRAMMING FOR CHEMISTS	ERM	000 36	000 00	000 36	U
1551	ANALYSIS OF PICTURE ARRANGEMENT TESTS	JMJ	016 33	002 06	018 39	U
1552	STRONG VOCATIONAL INT. SCORING	MS	000 27	002 16	002 43	S
1553	ADMIN. CONTROL INFO/ PSYC	JMJ	001 33	002 06	003 39	U
1554	FLUID MECHANICS OF IMPELLERS	MVD	005 14	000 28	005 42	U
1555	RADIATIVE TAU DECAY	PS	000 00	005 45	005 45	U
1558	G. C. DEWEY CORPORATION	GH	000 03	002 49	002 52	O
1562	FOURIER ANALYSIS OF LINE SHAPE	JGB	000 37	004 11	004 48	U
1563	PREDICTING ACAD SUCCESS STEVENS FROSH	JMJ	002 52	001 00	003 52	U
1564	MIDSHIP BENDING MOMENTS	NRD	001 11	000 16	001 27	S
1566	SHIP DATA	NRD	000 07	001 11	001 18	S
1567	YAW MOTION COMPUTATIONS	CAC	000 30	001 00	001 30	S

CONTINUED ON NEXT SHEET

COMPUTATION CENTER

MONTHLY STATEMENT OF CHARGES

OCTOBER 1963

TO, APPLIED LOGIC CORPORATION
NASSAU STREET
PRINCETON, NEW JERSEY

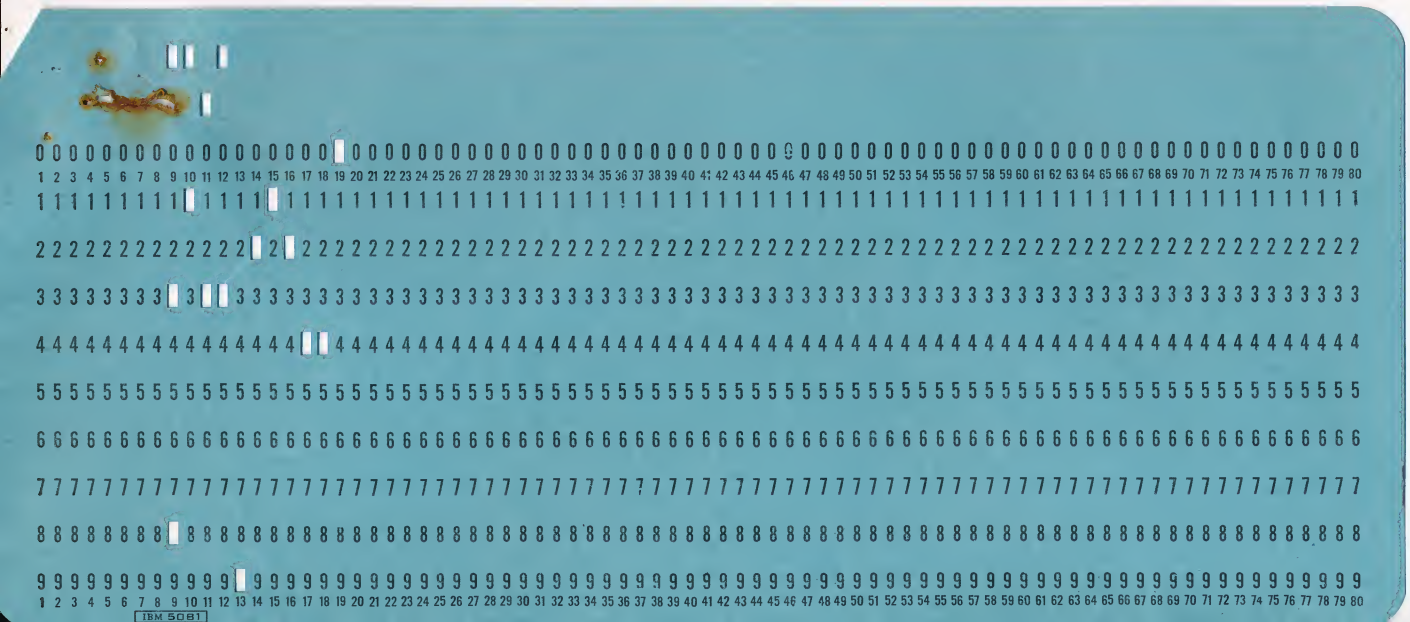
PROJECT NO. 30010

1620 COMPUTER TIME

DAY	TIME ON	TIME OFF	MODE	OPERATOR	ELAPSED TIME
10/15/63	13 45	13 49	3	10000	00 04
10/15/63	13 50	13 54	3	10000	00 04
10/15/63	13 55	13 59	3	10000	00 04
10/15/63	14 25	15 09	3	10000	00 44
10/21/63	10 00	10 06	3	10000	00 06
10/21/63	13 37	14 06	3	10000	00 29
10/21/63	14 19	15 58	3	10000	01 39
10/23/63	10 42	10 42	3	10000	00 01
10/23/63	10 43	11 26	3	10000	00 43
10/23/63	15 46	15 54	3	10000	00 08
10/24/63	09 19	09 22	3	10000	00 03
10/25/63	09 08	09 20	3	10000	00 12
10/25/63	10 06	10 58	3	10000	00 52
10/25/63	11 00	11 07	3	10000	00 07
10/27/63	15 37	15 40	3	10000	00 03
10/27/63	15 42	20 31	3	10000	04 49
10/28/63	10 00	10 41	3	10000	00 41
10/28/63	09 52	09 59	3	10000	00 07
10/28/63	15 01	15 03	3	10000	00 02
10/28/63	15 04	15 06	3	10000	00 02
10/28/63	15 07	16 00	3	10000	00 53
10/30/63	15 22	15 37	3	10000	00 15
10/30/63	15 46	15 51	3	10000	00 05
10/31/63	18 56	19 42	3	10000	00 46
		TOTAL			012 59

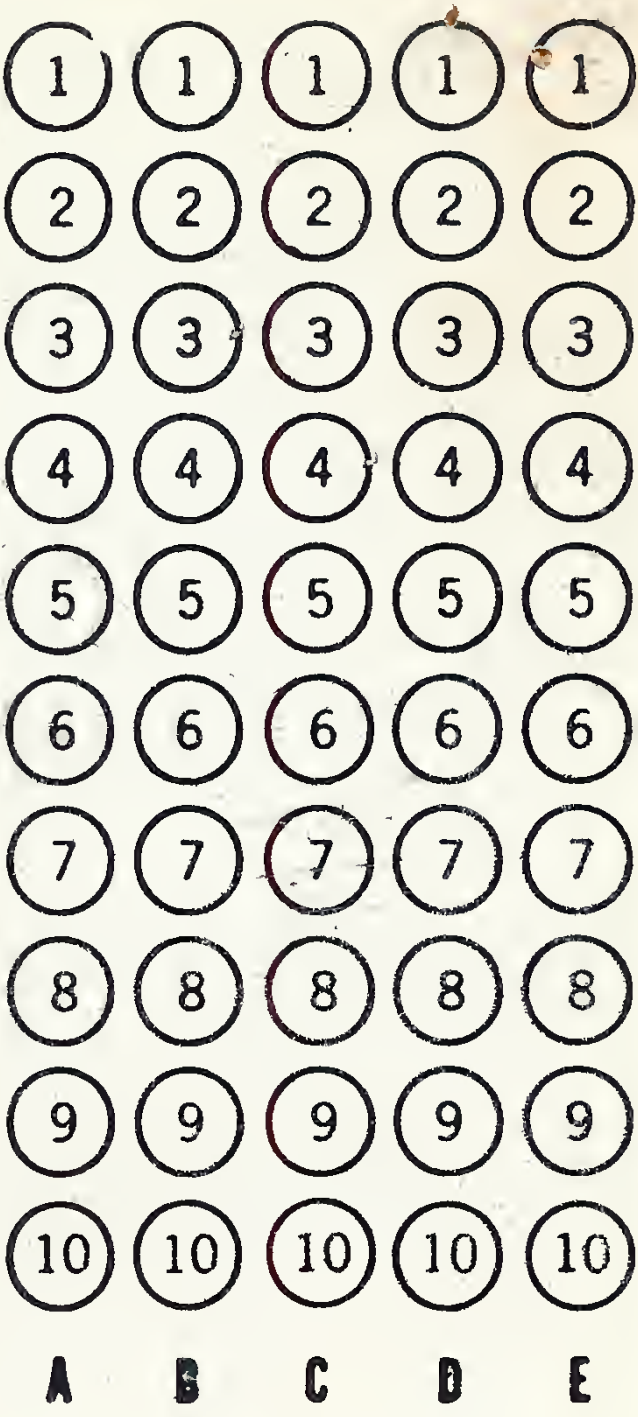
$ 454.30

CURRENT CHARGES. $ 454.30


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
IBM 5081

1401 OPERATIONS DATE 07-24-1965

SYST	FN	TYP	RHO	JOB	CL	BASE	START	STOP	USED	MTR	EFF%	CFGN	OP	ERROR
14-3	8	3		CUE	BO	8.00	8.00	8.18	.18			000	14	2
14-3	0	1		99444	HO	8.18	8.19	8.27	.09	1			14	
14-3	8	1		CUE	BO	8.27	8.27	8.60	.33	29	88	000	14	
14-3	8	1		CUE	BO	8.60	8.61	9.70	1.10	106	96	000	14	
14-3	8	1		EP054	BO	9.70	9.70	9.77	.07	2	29	641G	14	
14-3	0	1			KO	9.77	9.78	9.87	.10				14	
14-3		1		EP00	BO	9.87	9.87	12.17	2.30	169	73		14	D
14-3		1		EP00	BO	12.17	12.18	12.73	.56	50	89		14	D
14-3	8	1		EP054	BO	12.73	12.74	13.36	.63	50	79	641G	14	
14-3	8	1		EP030	BO	13.36	13.37	13.46	.10	3	30	642G	14	
14-3	8	1		EP032	BO	13.46	13.47	13.55	.09	3	33	634G	14	
14-3	4	1		CUE	BO	13.55	13.55	13.80	.25	6	24		14	
14-3	8	3		CUE	BO	13.80	13.80	14.05	.25			000	21	2
14-3	3	1		Z193	BO	14.05	14.05	14.08	.03	3	100		21	
14-3	4	1		CUE	BO	14.08	14.09	18.53	4.45	99	22		21	
14-3		1		FX10	AO	18.53	18.62	20.29	1.76	53	30		43	D
14-3	8	1		OP131	AO	20.29	20.29	21.84	1.55	119	77	1220	43	
14-3	8	1		OP144	AO	21.84	21.84	23.52	1.68	150	89	6420	43	
14-3	8	1		OP142	AO	23.52	23.52	23.60	.08	8	100	1410	43	
14-3	0	3		99444	HO	23.60	23.60	23.60					19	2
14-3	0	1		99444	HO	23.60	23.63	23.70	.10	6			19	
14-3	8	1		OP142	AO	23.70	23.73	.26	.56	20	36	1410	19	
14-3	8	1		OP145	AO	.26	.26	.33	.07	6	86	6410	19	
14-3	8	1		19998	DO	.33	.34	1.12	.79	53	67	641H	19	
14-3	3	1		Z193	BO	1.12	1.12	1.42	.30	30	100		19	
14-3		1		D9055	0	1.42	1.42	1.61	.19	17	89		19	D T
14-3	7	1		OP177	BO	1.61	1.61	1.73	.12	9	75	6240	19	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